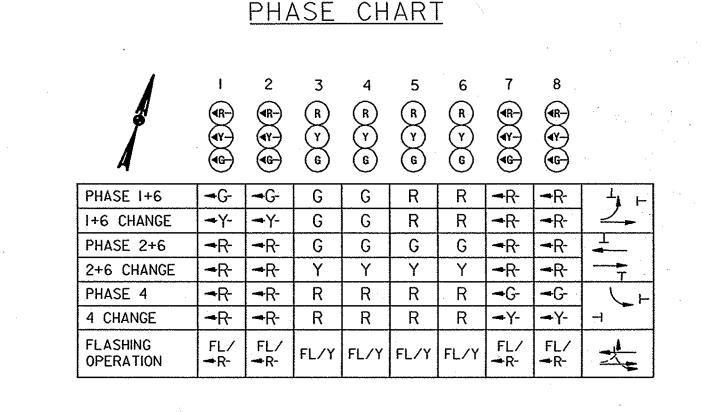
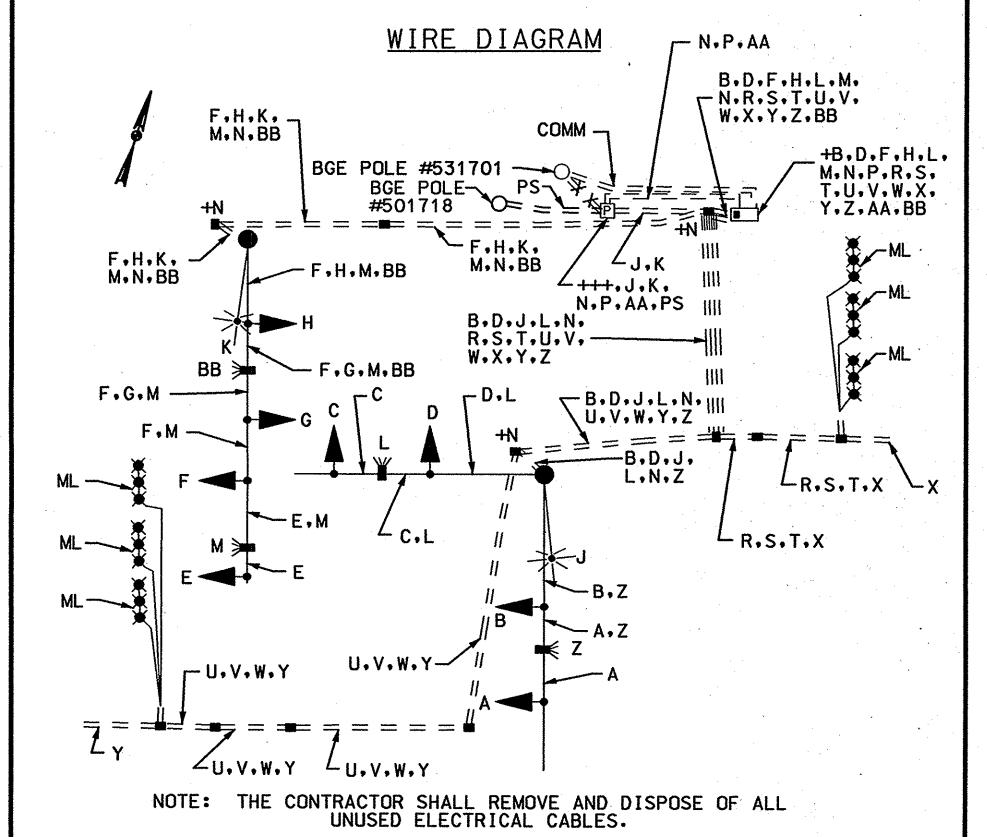
CONSTRUCTION DETAILS (CONT.) CONSTRUCTION DETAILS Z. REMOVE EXISTING CONTROLLER AND CABINET. AA. REMOVE EXISTING STEEL POLE WITH MAST ARM, TRAFFIC SIGNAL HEADS, AND SIGNS. A. INSTALL NEMA SIZE '6' BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY BB. REMOVE EXISTING POLE FOUNDATION TO 1 FT. BELOW GRADE. EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS). CC. INSTALL METERED SERVICE PEDESTAL. INSTALL CENTER OF FOUNDATION AT STA. 124+20, OFFSET 73 FT. LT. DD. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED FOR PROPOSED ELECTRICAL SERVICE. B. INSTALL 27 FT. STEEL POLE WITH 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO EE. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED FOR PROPOSED PHONE DROP. DETECTION CAMERAS. AND 10 FT. LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM FF. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED FOR PROPOSED ELECTRICAL SERVICE. LUMINAIRE WITH PHOTOCELL (NOTE: 2-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS). GG. INSTALL DETECTABLE WARNING SURFACE. INSTALL CENTER OF 27 FT. STEEL POLE AT STA. 122+28, OFFSET 64 FT. LT. C. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT. AND 60 FT. (CUT TO 50 FT.) MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, AND 15 FT. LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE WITH PHOTOCELL (NOTE: 2-3 IN. SCHEDULE 80. 90 DEGREE PVC CONDUIT BENDS). INSTALL CENTER OF 27 FT. STEEL POLE AT STA. 122+91, OFFSET 1 FT. LT. D. INSTALL HANDHOLE. E. HANDHOLE INSTALLED UNDER INTERCONNECT PLAN. F. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. G. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. H. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED. J. 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED INSTALLED UNDER INTERCONNECT PLAN-K. 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED INSTALLED UNDER INTERCONNECT PLAN. L. 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED INSTALLED UNDER INTERCONNECT PLAN. M. PROPOSED VIDEO DETECTION ZONE. N. INSTALL MICRO-LOOP PROBE SET AT STATION 127+07. P. INSTALL MICRO-LOOP PROBE SET AT STATION 118+94. R. EXISTING LIGHTING STRUCTURE TO BE REMOVED UNDER LIGHTING PLAN. S. INSTALL 1 IN. LIQUID-TIGHT, NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE-SLEEVE). T. INSTALL 24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE). U. INSTALL 12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK). V. REMOVE EXISTING HANDHOLE. W. REMOVE EXISTING HANDHOLE UNDER INTERCONNECT PLAN. X. ABANDON EXISTING CONDUIT. Y. ABANDON EXISTING LOOP DETECTOR. PROJECT DESCRIPTION THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE U.S. 40 (BALTIMORE NATIONAL PIKE) AND KENT AVENUE / THE ENTRANCE TO WESTVIEW SHOPPING CENTER INTERSECTION IN BALTIMORE COUNTY. U.S. 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION. INTERSECTION OPERATION NORMAL/ OPERATION THE INTERSECTION WILL OPERATE IN A NEMA FOUR PHASE FULL-TRAFFIC-ACTUATED MODE. THE EASTBOUND AND WESTBOUND U.S. 40 MOVEMENTS WILL RUN CONCURRENTLY. AN EXCLUSIVE DOUBLE LEFT TURN WILL BE PROVIDED FOR EASTBOUND U.S. 40 AND THE WESTVIEW MALL APPROACH WILL OPERATE ALONE. THE KENT AVENUE APPROACH WILL BE CONTROLLED BY A STOP CONDITION. THIS INTERSECTION WILL OPERATE AS PART OF AN INTERCONNECT SYSTEM BETWEEN INGLESIDE AVENUE AND WINTERS LANE USING 12-PAIR COMMUNICATION CABLE. UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR, ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND TELEPHONE NUMBER. CONTROLLER REQUIREMENTS INSTALL A FULLY-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH A VIDEO DETECTION SYSTEM, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, ISOLATION BOARD, TELEMETRY EQUIPMENT, FOUR CHANNEL LOOP DETECTOR AMPLIFIERS AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET. PROJECT CONTACTS CONTACT PERSONS FOR THE OFFICE OF TRAFFIC CONTACT PERSONS FOR DISTRICT 4 ARE AND SAFETY ARE AS FOLLOWS: AS FOLLOWS: MR. RICHARD DAFF SR. MR. RANDALL SCOTT CHIEF. TRAFFIC OPERATIONS ASSISTANT DISTRICT ENGINEER - TRAFFIC 410-787-7630 410-321-2781 OR 410-321-2885 MR. ROBERT SNYDER MS. SUENETTE POPE ASSISTANT DIVISION CHIEF. TRAFFIC UTILITY ENGINEER **OPERATIONS** 410-321-2841 410-787-7630 MR. STEVE MARCISZEWSKI MR. ED RODENHIZER ASSISTANT DISTRICT ENGINEER - MAINTENANCE CHIEF, SIGNAL OPERATIONS 410-321-2764 410-787-7650

INSTALL DETECTABLE WARNING SURFACE. I. 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED INSTALLED UNDER INTERCONNECT PLAN.									
EQUIPMENT LIST "A" A. EQUIPMENT TO BE SUPPLIED BY THE SHA									
SPEC. NO.	CATEGORY	QUANT	rtty	DESCRIPTION					
816	<u>CODE NO.</u> 971017		EA.	EIGHT PHASE (FULLY ACTUATED) CONTROLLED AND CABINET-BASE MOUNT SIZE SIX					
816	963010	2	EA.	FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT					
813	973023	67	S.F.	SHEET ALUMINUM SIGN					
	•			- 1 EACH ASSOCIATED SHIELD ASSEMBLY (24" x 51")					
			•	M3-4 (24" x 12") M1-4 (24" x 24") M6-1 (21" x 15") - 1 EACH ASSOCIATED SHIELD ASSEMBLY (36" x 75") M3-2 (30" x 15")					
	•			M1-4 (36" x 36") M6-1 (30" x 24") - 4 EACH R3-5(L) (30" x 36") - 1 EACH R3-2 (36" x 36")					
	900000	. 1	EA.	VIDEO INTERFACE EQUIPMENT					
	300000	1	L. A. •	EQUIPMENT LIST "B"					
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR									
	CATEGORY								
SPEC. NO.	CODE NO.	QUANT		DESCRIPTION					
104	120500		L.S.	MAINTENANCE OF TRAFFIC					
205	203030	2	C.Y.	TEST PIT EXCAVATION					
556 556	585620 585624	330	L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK) 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED					
336	363624	100	L • F •	THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)					
611	655120	. 55	S.F.	DETECTABLE WARNING SURFACE FOR CURB RAMPS					
801	801004	13 (C.Y.	CONCRETE FOR SIGNAL FOUNDATION					
810	802501	525 เ	L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE					
805	805125	115 l	L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED					
805	805135	25 l	F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED					
805	805140	15 30 1	F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED					
805	805155 ⁴	25 25 1	F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED					
805	805160	30 l	L.F.	1 INCH LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE					
807	807202	1 8	EA.	METERED SERVICE PEDESTAL					
	81,0550	3 [EA.	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE					
, ————————————————————————————————————	810555	3 [EA.	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE					
811	811001	2 (EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE					
811	811002	3 8	EA.	REMOVE ELECTRICAL HANDHOLE					
813	813015	67	S.F.	INSTALL OVERHEAD SIGN					
816	816001	4 [EA.	VIDEO DETECTION CAMERA					
816	816010		EA.	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER					
818	818050	1 6	EA.	STEEL POLE WITH TWIN 50 FOOT AND 60 FOOT MAST ARMS					
818	818052	.1 [STEEL POLE WITH SINGLE 70 FOOT MAST ARM					
806 810	831010 832017	2 E 115 L	EA.	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE WITH PHOTOCELL CABLE - 1 CONDUCTOR, NO. 4 A.W.G., TYPE USE, 600V					
804	837001	7 [GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH					
814	860272	24 [12 INCH VEHICULAR SIGNAL HEAD SECTION					
		1,375 L		ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)					
810	861116	600 L		ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)					
815	862102	225 l		SAW CUT FOR SIGNAL (LOOP DETECTOR)					
818	866101	1 8		10 FOOT LIGHTING ARM ON SIGNAL STRUCTURE					
818	866103		ΞΑ.	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE					
816 	871117		ΞΑ. S.	INSTALL EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT REMOVE AND DISPOSE OF EXISTING MATERIALS AND					
	000000	, . L	_,• 3•	EQUIPMENT					
EQUIPMENT LIST "C"									
C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. RUMMEL, KLEPPER & KAHL, LLP									
SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND CONSULTING ENGINEERS									





WIRING LEGEND

A.B.C.D.E. 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) VIDEO DETECTION CAMERA TO CONTROLLER CABLE STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) 1-CONDUCTOR (NO. 4 A.W.G.) R.S.T.U.V.W } MICRO-LOOP PROBE LEAD-IN CABLE 12-PAIR JELLY-FILLED COMMUNICATION CABLE (INSTALLED UNDER INTERCONNECT PLAN) + - $3/4'' \times 10'$ GROUND ROD PS - PROPOSED POWER SERVICE UNDERGROUND ML - MICRO-LOOP PROBE SG-2 OF SG-6 COMM - PROPOSED PHONE DROP

REVISIONS

MODIFIED POWER FEED SERVICE ADL 09/19/05

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION U.S. 40 & KENT AVENUE / ENTRANCE TO

WESTVIEW SHOPPING CENTER

GENERAL INFORMATION SHEET

DRAWN BY: ADL	F.A.P. NO.	SEE TITLE SHEET	TS NO. 194 C	
CHECKED BY: BLB SCALE: NONE	S.H.A. NO. COUNTY:	BA3895172 BALTIMORE	T.I.M.S. NO.	SHEET NO.
DATE: AUGUST 2004	LOG MILE:	03004002,69	<u>G 250</u>	750F <u>101</u>

CHIEF, SIGN OPERATIONS 410-787-7676

MR. EUGENE BAILEY

MR. MIKE STOCKER SIGNAL SHOP WAREHOUSE 410-787-7696

EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR

SHALL BECOME THE PROPERTY OF THE CONTRACTOR

CONSULTING ENGINEERS 81 MOSHER STREET BALTIMORE, MARYLAND 21217

410-859-9433 WMS #1202636

THE POWER COMPANY REPRESENTIVE:

MR. GARY SMITH

FELE:(410)728-2900 FAX:(410)383-3270